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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | | |
|--------------------------|-----------------------------------|----------------------|-----------------------|------------------|--|--|
| 10/537,370 | 06/03/2005 | Siegfried Ruthardt | R.305551 | 2637 | | |
| 2119 RONALD E. C | 7590 07/09/2007 | | . EXAMINER | | | |
| GREIGG & GREIGG P.L.L.C. | | | FRISTOE JR, JOHN K | | | |
| 1423 POWHA' ALEXANDRI | TAN STREET, UNIT C A. VA 22314 | DNE | ART UNIT PAPER NUMBER | | | |
| | , | | 3753 | | | |
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| | | | MAIL DATE | DELIVERY MODE | | |
| | | | 07/09/2007 | PAPER | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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|---|---|--|---|-----|--|--|--|
| | | Application No. | Applicant(s) | | | | |
| Office Action Summary | | 10/537,370 | RUTHARDT ET AL. | | | | |
| | | Examiner | Art Unit | | | | |
| | | John K. Fristoe Jr. | 3753 | | | | |
| The MAILING Period for Reply | G DATE of this communication app | ears on the cover sheet with the c | orrespondence address | | | | |
| WHICHEVER IS LC - Extensions of time may be after SIX (6) MONTHS fr - If NO period for reply is s - Failure to reply within the Any reply received by the | CATUTORY PERIOD FOR REPLY DNGER, FROM THE MAILING DA be available under the provisions of 37 CFR 1.13 om the mailing date of this communication. pecified above, the maximum statutory period we set or extended period for reply will, by statute, a Office later than three months after the mailing thment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION (6(a). In no event, however, may a reply be tin ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N. nely filed the mailing date of this communicatio D (35 U.S.C. § 133) | | | | |
| Status | | | | | | | |
| 1) Responsive to | o communication(s) filed on <u>13 Ju</u> | ne 2007. | | | | | |
| 2a) ☐ This action is | This action is FINAL . 2b)⊠ This action is non-final. | | | | | | |
| | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | |
| closed in acco | ordance with the practice under E | x parte Quayle, 1935 C.D. 11, 45 | 53 O.G. 213. | | | | |
| Disposition of Claims | | | | | | | |
| 4)⊠ Claim(s) <u>8,11</u> | <u>,17,20,22 and 25</u> is/are pending ir | n the application. | | | | | |
| | ove claim(s) is/are withdraw | | | | | | |
| 5)☐ Claim(s) | is/are allowed. | | | | | | |
| 6)⊠ Claim(s) <u>8 an</u> | - | | | | | | |
| | 0,22 and 25 is/are objected to. | | | | | | |
| 8)[_] Claim(s) | _ are subject to restriction and/or | election requirement. | | | | | |
| Application Papers | | | | | | | |
| 9)☐ The specificati | on is objected to by the Examiner | | | | | | |
| 10)⊠ The drawing(s |) filed on <u>03 June 2005</u> is/are: a) | ⊠ accepted or b) objected to | by the Examiner. | | | | |
| Applicant may | not request that any objection to the d | lrawing(s) be held in abeyance. See | 37 CFR 1.85(a). | | | | |
| | rawing sheet(s) including the correction | | · | d). | | | |
| 11) The oath or de | eclaration is objected to by the Exa | aminer. Note the attached Office | Action or form PTO-152. | | | | |
| Priority under 35 U.S.0 | C. § 119 | | | | | | |
| a)⊠ All b)□ S 1.□ Certified 2.□ Certified 3.⊠ Copies | ent is made of a claim for foreign pome * c) None of: d copies of the priority documents d copies of the priority documents of the certified copies of the priori | have been received. have been received in Application ty documents have been receive | on No | | | | |
| | tion from the International Bureau | ` ' ' ' | a. | | | | |
| See the attache | ed detailed Office action for a list o | or the certified copies not receive | a. | | | | |
| Attachment(s) | | | | | | | |
| | s Patent Drawing Review (PTO-948) Statement(s) (PTO/SB/08) | 4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other: | te | | | | |

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DETAILED ACTION

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Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/13/2007 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 8, 11, 17, 20, 22, and 25 are have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 8 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 6,805,302 (Boecking) in view of U.S. Pat. No. 5,129,489 (Majima et al.). Boecking discloses a valve for controlling fluids comprising a holder body (10), a receptacle (within element 10, a piezoelectric actuator (2), a hydraulic coupler module (3), a positioning piston (4, 7), an actuating piston (5), a hydraulic coupler (6), a valve closure member (16), a valve seat (below the lead line for element 15), a valve chamber (15), a return conduit (21), a seal (20), an annular collar (12, 13), a spring (9), and a positioning washer (8) but lacks an o-ring seal guiding

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the positioning piston. Majima et al. teach Majima et al. discloses a valve for controlling fluids comprising a holder body (59), a receptacle (within element 59 in figure 3), a piezoelectric actuator unit (67FL), a hydraulic coupler module (69, 71, 71a), a positioning piston (69), an actuating piston (71a), a hydraulic coupler (71), a valve closure member (77), at least one valve seat (71c), a valve chamber (55), a return conduit (88c), and a seal (69b) which is an o-ring that guides the positioning piston (69). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the valve for controlling fluids of Boecking by adding an o-ring seal that guides the positioning piston as taught by Majima et al. in order to any fluid that may reach the piezoelectric actuator.

Allowable Subject Matter

- 5. Claims 17, 20, 22, and 25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John K. Fristoe Jr. whose telephone number is (571) 272-4926. The examiner can normally be reached on Monday-Friday, 7: 00 a.m-4: 30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eric S. Keasel can be reached on (571) 272-4929. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/John K. Fristoe Jr./ John K. Fristoe Jr. Examiner Art Unit 3753

JKF